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Serial No. 10/056,312

UTILITY PATENT

B&D No. TN -1488

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A miter saw comprising:

a base assembly;

a rotatable table rotatably connected to the base assembly and having a table plane;

a saw assembly pivotal about a chopping axis, the saw assembly including a motor with a motor shaft, and a blade having a radius and being disposed on an arbor, the arbor having a first portion carrying the blade, a second portion disposed away from the blade, and a first gear disposed on the second portion, an intermediate gear meshing with the first gear, and a second gear driven by the motor and meshing with the intermediate gear, wherein the intermediate gear is always meshing with the first and second gears, the second gear being driven by the motor via a belt and being above a line drawn between the motor shaft and the arbor; and

a pivot arm pivotally attached to the table and supporting the saw assembly, the pivot arm and saw assembly being pivotable about a horizontal bevel axis from a first position where the blade is substantially perpendicular to the table to a second position where the blade is disposed at an angle relative to the table, the angle between the blade and the table being about 45 degrees;

wherein a distance between the second portion and at least one of the base assembly and the table is smaller than a distance between the first portion and the at least one of the base assembly and the table when the saw assembly is in the second position;

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wherein a distance between the chopping axis and the table plane being at least about 0.79 times the radius of the blade, and a distance between the arbor and the table plane when the saw assembly is in a lowered position is between about 0.671 and about 0.6775 times the radius of the blade.

Claims 2-24 (canceled).

Claim 25 (new): The miter saw of Claim 1, wherein the distance between the chopping axis and the table plane is between about 11.98 cm and about 12.25 cm.

Claim 26 (new): The miter saw of Claim 1, wherein the distance between the arbor and the table plane when the saw assembly is in the lowered position is between about 10.17 cm and about 10.38 cm.

Claim 27 (new): The miter saw of Claim 1, further comprising a substantially vertical fence attached to the base, the fence having a fence plane.

Claim 28 (new): The miter saw of Claim 27, wherein a distance between the chopping axis and the fence plane is between about 1.28 and about 1.292 times the radius of the blade, and a distance between the arbor and the fence plane when the saw assembly is in a lowered position is between about 0.60 and about 0.61 times the radius of the blade.

Claim 29 (new): The miter saw of Claim 28, wherein the distance between the chopping axis and the fence plane is between about 19.40 cm and about 19.80 cm.

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Claim 30 (new): The miter saw of Claim 28, wherein the distance between the arbor and the fence plane when the saw assembly is in the lowered position is between about 9.10 cm and about 9.35 cm.